

ABSTRACT

A two-phase cooling apparatus for cooling an electronic assembly is disclosed. The apparatus comprises an evaporator having a single-phase inlet for receiving a 5 single-phase liquid coolant and a two-phase outlet for discharging a two-phase coolant. A local condenser is disposed proximate the evaporator and has a two-phase inlet coupled to the evaporator outlet. The local condenser includes a single-phase liquid coolant outlet. The apparatus further includes a pump having an output coupled to the evaporator inlet, and an input coupled to the local condenser outlet.

10